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## **PAD4 (C) Antibody, Rabbit Polyclonal**

**Cat#: R3480-2**

**Quantity: 100 ul**

**Predicted | Observed M.W.: 61 kDa**

**Lot#: Refer to vial**

**Application: WB**

**Uniprot ID: Q9S745**

### **Background:**

PAD4 is a probable lipase required downstream of MPK4 for accumulation of the plant defense-potentiating molecule, salicylic acid (SA), thus contributing to the plant innate immunity against invasive biotrophic pathogens and to defense mechanisms upon recognition of microbe-associated molecular patterns (MAMPs). PAD4 is necessary for the salicylic acid-(SA-) dependent systemic acquired resistance (SAR) response that involves expression of multiple defense responses. PAD4 may also function in response to abiotic stresses such as UV-C light and LSD1-dependent acclimatization to light conditions that promote excess excitation energy (EEE), probably by transducing redox signals and modulating stomatal conductance.

### **Other Names:**

Lipase-like PAD4, Protein ENHANCED DISEASE SUSCEPTIBILITY 9, Protein PHYTOALEXIN DEFICIENT 4, AtPAD4, EDS9, At3g52430

### **Source and Purity:**

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing C-terminal region of arabidopsis thaliana PAD4 (AT3G52430). Antibodies were purified by affinity purification using immunogen.

### **Storage Buffer and Condition:**

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

### **Species Specificity:**

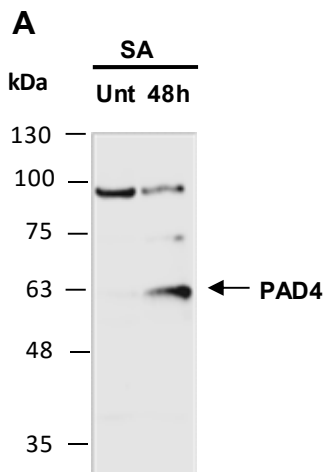
Arabidopsis

### **Tested Applications:**

WB: 1:500-1:2,000 (detect endogenous protein\*)

\*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

**Product Data:**



**Fig 1.** Western blot analysis of equal amounts of protein extracts from wild type *arabidopsis* leaves untreated (Unt) or treated with 1mM salicylic acid (SA) for 48h as indicated, using anti-PAD4 (C) (R3480-2) at RT for 2 h. PAD4 is known to be induced by SA treatment.